

A 18. Which element is a member of the halogens?

- (a) astatine
- (b) copper
- (c) radium
- (d) potassium

D 19. Protons are

- (a) negatively charged particles found outside the nucleus of an atom.
- (b) neutral particles found in the nucleus of an atom.
- (c) positively charged particles found outside the nucleus of an atom.
- (d) positively charged particles found in the nucleus of an atom.

C 20. What type of reaction does the following equation represent?



- (a) single displacement
- (b) combustion
- (c) double displacement
- (d) decomposition

B 21. A beryllium ion has

- (a) 4 protons, 6 electrons and an ionic charge of 2-.
- (b) 4 protons, 2 electrons and an ionic charge of 2+.
- (c) 4 protons, 6 electrons and an ionic charge of 2+.
- (d) 4 protons, 2 electrons and an ionic charge of 2-.

Be^{+2}

4 protons
2 electrons

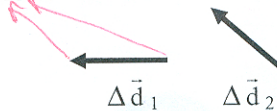
D 22. In the Periodic Table, elements with similar properties are grouped in:

- (a) diagonal rows
- (b) horizontal rows
- (c) periods
- (d) vertical columns

A 23. Gold can be hammered into thin sheets. What physical property is being described?

- (a) malleability
- (b) ductility
- (c) viscosity
- (d) solubility

C 24. Two vectors are shown below.



If these two vectors are added together which of the following would be the resultant vector?

- (a)
- (b)
- (c)
- (d)

B 25. Which of the following is a chemical property?

- (a) freezing
- (b) burning
- (c) dissolving
- (d) boiling

A 26. Which of the following includes only mixtures?

- (a) heterogeneous mixtures and solutions
- (b) elements, compounds and solutions
- (c) compounds and solutions
- (d) elements and compounds